

Amendments to the Specification:

Please replace the title with the following title:

--SAMPLE ANALYSIS DEVICE HAVING A REACTION CHAMBER, TRANSITION
REGION, AND SEPARATION REGION AND METHOD OF USE--

*N.G. Proper
NOT Rejected*
Please replace the paragraph beginning at page 5, line 4, with the following rewritten paragraph:

--The body may be surrounded by external, functional components such as differential pressure sources, electro-motive sources, heaters, light sources, and optical detectors. In the preferred embodiment, the reaction chamber is an amplification chamber for amplifying nucleic acid in the sample. Also in the preferred embodiment, the separation region comprises a separation channel, e.g., an electrophoresis column or capillary containing a suitable matrix material, such as electrophoresis gel or buffer, for separating nucleic acid fragments in the sample. In one embodiment, the device further includes at least two electrodes coupled to the body, the electrodes being positioned to drive electrophoretic, electroosmotic, or IEF flow in the separation channel when a voltage difference is applied between the electrodes.--

Please replace the abstract on page 28 with the following rewritten abstract of the disclosure:

*N.G. NEEDS TO
be
on separate
sheet*
--A device for analyzing a sample comprises a body having, a reaction chamber for conducting a reaction, a separation region for separating components of the sample, and a transition region connecting the reaction chamber to the separation region. The portion of the body defining the transition region has sufficiently low thermal conduction so that the transition region substantially thermally isolates the reaction chamber from the separation region. The device also includes at least one valve in the transition region for controlling fluid flow between the reaction chamber and the separation region. At least two electrodes are coupled to the body, the electrodes being positioned to drive electrophoretic, electroosmotic, or IEF flow in the separation region when a voltage difference is applied between the electrodes.--